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ctg Leu	cag Gln 330	gag Glu	cag Gln	ctg Leu	gag Glu	cag Gln 335	ctg Leu	cag Gln	agg Arg	gag Glu	tac Tyr 340	agc Ser	aaa Lys	ctg Leu	aag Lys	1180

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Leu Gly Lys Pro Ala Met Leu His Leu Pro Ser Glu Gl
n Gly Ala Pro 35 40 45

Glu Thr Leu Gln Arg Cys Leu Glu Glu Asn Gln Glu Leu Arg Asp Ala 50 55 60

Ile Arg Gln Ser Asn Gln Ile Leu Arg Glu Arg Cys Glu Glu Leu Leu 65 70 75 80

His Phe Gln Ala Ser Gln Arg Glu Glu Lys Glu Phe Leu Met Cys Lys 85 90 95

Phe Gln Glu Ala Arg Lys Leu Val Glu Arg Leu Gly Leu Glu Lys Leu 100 105 110

Asp Leu Lys Arg Gln Lys Glu Gln Ala Leu Arg Glu Val Glu His Leu 115 120 125

Lys Arg Cys Gln Gln Gln Met Ala Glu Asp Lys Ala Ser Val Lys Ala 130 135 140

Gln Val Thr Ser Leu Leu Gly Glu Leu Gln Glu Ser Gln Ser Arg Leu 145 150 155 160

Glu Ala Ala Thr Lys Glu Cys Gln Ala Leu Glu Gly Arg Ala Arg Ala 165 170 175

Ala Ser Glu Gln Ala Arg Gln Leu Glu Ser Glu Arg Glu Ala Leu Gln 180 185 190

Gln Gln His Ser Val Gln Val Asp Gln Leu Arg Met Gln Gly Gln Ser 195 200 205

Val Glu Ala Ala Leu Arg Met Glu Arg Gln Ala Ala Ser Glu Glu Lys 210 215 220

Arg Lys Leu Ala Gln Leu Gln Val Ala Tyr His Gln Leu Phe Gln Glu 225 230 235 240

Tyr Asp Asn His Ile Lys Ser Ser Val Val Gly Ser Glu Arg Lys Arg 245 250 255

Gly Met Gln Leu Glu Asp Leu Lys Gln Gln Leu Gln Gln Ala Glu Glu 260 265 270

Ala Leu Val Ala Lys Gln Glu Val Ile Asp Lys Leu Lys Glu Glu Ala 275 280 285

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ttt	gaat	tag	tatt	ttga	ag t	taat	atca	c a	atg Met	agt Ser	tca Ser	ggc Gly	tta Leu	tgg Trp	agc Ser	412

Glu Gln His Lys Ile Val Met Glu Thr Val Pro Val Leu Lys Ala Gln

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ctg Leu	gaa Glu	gaa Glu 170	ggt Gly	cgt Arg	ggt Gly	caa Gln	ggt Gly 175	ttc Phe	act Thr	gac Asp	Gly	gtg Val 180	tac Tyr	caa Gln	Gly aaa	940
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Lys Gln Thr Gln Lys Leu Leu Lys Val Pro Lys Gly Ser Ile Gly Gln 35 40 45

Tyr Ile Gln Asp Arg Ser Val Gly His Ser Arg Ile Pro Ser Ala Lys 50 55 60

Gly Lys Lys Asn Gln Ile Gly Leu Lys Ile Leu Glu Gln Pro His Ala 65 70 75 80

Val Leu Phe Val Asp Glu Lys Asp Val Val Glu Ile Asn Glu Lys Phe 85 90 95

Thr Glu Leu Leu Ala Ile Thr Asn Cys Glu Glu Arg Phe Ser Leu 100 105 110

Phe Lys Asn Arg Asn Arg Leu Ser Lys Gly Leu Gln Ile Asp Val Gly
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Cys Pro Val Lys Val Gln Leu Arg Ser Gly Glu Glu Lys Phe Pro Gly 130 135 140

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Ile Phe Phe Gly Val Glu Leu Leu Glu Glu Gly Arg Gly Gln Gly Phe
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Cys Gly Val Phe Val Ala Leu Asp Lys Leu Glu Leu Ile Glu Asp Asp 195 200 205

Asp Thr Ala Leu Glu Ser Asp Tyr Ala Gly Pro Gly Asp Thr Met Gln 210 215 220

Val Glu Leu Pro Pro Leu Glu Ile Asn Ser Arg Val Ser Leu Lys Val 225 230 235 240

Gly Glu Thr Ile Glu Ser Gly Thr Val Ile Phe Cys Asp Val Leu Pro 245 250 255

Gly Lys Glu Ser Leu Gly Tyr Phe Val Gly Val Asp Met Asp Asn Pro 260 265 270

Ile Gly Asn Trp Asp Gly Arg Phe Asp Gly Val Gln Leu Cys Ser Phe 275 280 285

Ala Cys Val Glu Ser Thr Ile Leu Leu His Ile Asn Asp Ile Ile Pro 290 295 300

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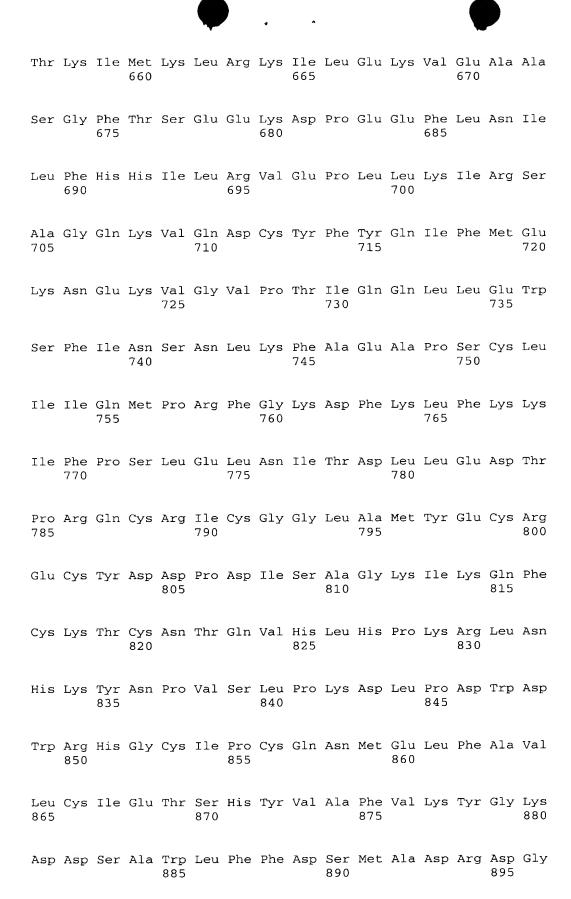
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Pro Leu Gln Pro Pro Pro Val Asn Ser Leu Thr Thr Glu Asn Arg Phe 405 410 415

His Ser Leu Pro Phe Ser Leu Thr Lys Met Pro Asn Thr Asn Gly Ser Ile Gly His Ser Pro Leu Ser Leu Ser Ala Gln Ser Val Met Glu Glu Leu Asn Thr Ala Pro Val Gln Glu Ser Pro Pro Leu Ala Met Pro Pro Gly Asn Ser His Gly Leu Glu Val Gly Ser Leu Ala Glu Val Lys Glu Asn Pro Pro Phe Tyr Gly Val Ile Arg Trp Ile Gly Gln Pro Pro Gly Leu Asn Glu Val Leu Ala Gly Leu Glu Leu Glu Asp Glu Cys Ala Gly Cys Thr Asp Gly Thr Phe Arg Gly Thr Arg Tyr Phe Thr Cys Ala Leu Lys Lys Ala Leu Phe Val Lys Leu Lys Ser Cys Arg Pro Asp Ser Arg Phe Ala Ser Leu Gln Pro Val Ser Asn Gln Ile Glu Arg Cys Asn Ser Leu Ala Phe Gly Gly Tyr Leu Ser Glu Val Val Glu Glu Asn Thr Pro Pro Lys Met Glu Lys Glu Gly Leu Glu Ile Met Ile Gly Lys Lys Gly Ile Gln Gly His Tyr Asn Ser Cys Tyr Leu Asp Ser Thr Leu Phe Cys Leu Phe Ala Phe Ser Ser Val Leu Asp Thr Val Leu Leu Arg Pro Lys Glu Lys Asn Asp Val Glu Tyr Tyr Ser Glu Thr Gln Glu Leu Leu Arg Thr Glu Ile Val Asn Pro Leu Arg Ile Tyr Gly Tyr Val Cys Ala



A 2 4





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Cys Met Tyr Gln Ser Pro Thr Met Ser Leu Tyr Lys 945 950 955